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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/758,276	01/16/2004	Masaru Takahashi	Q79469	5146
23373 7	590 12/23/2005		EXAMINER	
SUGHRUE N	MION, PLLC YLVANIA AVENUE, N.	w	нѕієн, ѕнін w	
SUITE 800	LVANIA AVENUE, IV.	***	ART UNIT	PAPER NUMBER
WASHINGTO	N, DC 20037		2861	

DATE MAILED: 12/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			H·F		
	Application No.	Applicant(s)			
Office Action Summan	10/758,276	TAKAHASHI ET AL.			
Office Action Summary	Examiner	Art Unit			
The MAILING DATE of this communication and	Shih-wen Hsieh	2861			
The MAILING DATE of this communication app Period for Reply	bears on the cover sheet wit	n the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v. - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC 36(a). In no event, however, may a re will apply and will expire SIX (6) MONT a, cause the application to become ABA	ATION. ply be timely filed THS from the mailing date of this communication ANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 28 Ju	<u>une 2004 (claims)</u> .				
,					
3) Since this application is in condition for allowant closed in accordance with the practice under E			S		
closed in accordance with the practice under z	_x parte Quayre, 1955 O.D.	11, 433 0.0. 210.			
Disposition of Claims					
4) Claim(s) <u>1-7</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdra	wn from consideration.				
5) Claim(s) is/are allowed. 6) Claim(s) <u>1-7</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	or election requirement.				
Application Papers					
9) The specification is objected to by the Examine	er.				
10)⊠ The drawing(s) filed on 16 January 2004 is/are		ojected to by the Examiner.			
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correct			(d).		
11) The oath or declaration is objected to by the Ex	xaminer. Note the attached	Office Action of form P1O-152.			
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. §	119(a)-(d) or (f).			
a)⊠ All b)□ Some * c)□ None of:					
1. Certified copies of the priority document		onligation No			
2. Certified copies of the priority document3. Copies of the certified copies of the priority					
 Copies of the certified copies of the prio application from the International Burea 		TOOTIVOU III UNO TUUTONAI GLAGO			
* See the attached detailed Office action for a list		received.			
Attachment(s)					
1) Notice of References Cited (PTO-892)		ummary (PTO-413)			
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 6-28-04;8-25-05.)/Mail Date Iformal Patent Application (PTO-152) 			

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-7 are rejected under 35 U.S.C. 102(e) as being anticipated by Edamura (US Pat. No. 6,631,973 B1).

In regard to:

Claim 1:

Edamura teaches in his fig. 22:

A liquid ejecting apparatus comprising:

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a liquid ejecting head (H1001, fig .6), having a nozzle (H1100T, fig. 8) from which a liquid is ejected;

a capping unit (M5001, fig. 11), sealing the liquid ejecting head, refer to step \$11;

a tube pump (M5100, fig. 11), applying a negative pressure to the capping unit by rotating operation to suck a fluid, refer to col. 24, lines 40-55; and

a controller (E1001, fig. 16A), varying a rotation speed of the tube pump, refer to step S15 and col. 25, lines 3-8,

wherein the controller rotates the tube pump at a first rotation speed for a first predetermined time, refer to step S13 and col. 24, lines 47-49 and 56-58; and

wherein the controller rotates the tube pump at a second rotation speed lower than the first rotation speed for a second predetermined time after rotating the tube pump at the first rotation speed for the first predetermined time, refer to step S15 for a second speed and col. 25, lines 3-8. Please note: in col. 25, lines 3-8, the second speed is at a predetermined rotation speed (lines 4-6). Therefore, a speed, which is lower than the first speed is also covered by the predetermined speed.

Claim 2:

Edamura further teaches:

wherein the first predetermined time is a time from a start of the rotating operation of the tube pump to when a suction speed at which the tube pump sucks the fluid reaches a predetermined value, refer to col. 24, lines 40-58. In the quoted lines,

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due to a negative pressure target value is arrived, therefore corresponding to this negative pressure value, a predetermined amount of ink is being sucked out.

Claim 3:

The liquid ejecting apparatus as set forth in claim 1, wherein a plurality of rotation speeds of the tube pump capable of increasing a suction speed of the fluid to a predetermined value are set to the controller;

wherein the controller rotates the tube pump at one rotation speed of the set rotation speeds of the tube pump for a predetermined time; and

wherein the controller rotates the tube pump at another rotation speed of the set rotation speeds of the tube pump lower than the one rotation speed for a predetermined time after rotating the tube pump at the one rotation speed.

Rejection:

This claim is rejected on the basis as set forth for claims 1 and 2 discussed above.

In this claim, the plurality of rotation speeds are covered by steps S 13 and S15 respectively. The time is the numbers of pulses (since the motor is a pulse motor). And the plurality of speeds are all predetermined speed. Therefore, second speed is lower than the first speed is covered by Edamura's invention.

Claim 4:

A method for controlling a liquid ejecting apparatus, comprising the steps of: providing a liquid ejecting head which has a nozzle from which a liquid is ejected';

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providing a capping unit which seals the liquid ejecting head;

providing a tube pump which applies a negative pressure to the capping unit by rotating operation to suck a fluid;

setting a plurality of rotation speeds of the tube pump capable of increasing a suction speed of a fluid to a predetermined value;

rotating the tube pump at one rotation speed of the rotation speeds of the tube pump for a predetermined time in a high speed rotation stage; and

rotating the tube pump at another rotation speed of the rotation speeds lower than the one rotation speed for a predetermined time in a low speed rotation stage after the step of rotating the tube pump in the high speed rotation stage.

Rejection:

The steps in this method claim are deemed to be made inherent by the function of the structure in the combination discussed above for claim 1.

Claim 5:

Edamura further teaches:

wherein the rotating of the tube pump in the low speed rotation stage is performed when the suction speed of the fluid is reached the predetermined value in the high speed rotation stage, refer to Steps S13 and S15 and discussions to claim 1 above.

Claim 6:

Edamura further teaches:

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wherein the rotating of the tube pump in the low speed rotation stage is performed when a time predicted that the suction speed of the fluid is reached the predetermined value is elapsed in the high speed rotation stage, refer to Steps S13 and S15. In this claim, recitation of "when a time predicted that the suction speed of the fluid is reached the predetermined value is elapsed in the high speed rotation stage" is the time corresponding to 400 pulses. When the 400 pulses is over (elapsed), the negative pressure reaches a predetermined value, then a second rotation (S15 at a second predetermined speed) is started for a number of pulses.

Claim 7:

Edamura further teaches:

wherein the rotating of the tube pump in the high speed rotation stage and the rotating of the tube pump in the low speed rotation stage are successively performed, refer to step S18.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shih-wen Hsieh whose telephone number is 571-272-2256. The examiner can normally be reached on 7:30AM -5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, S D. Meier can be reached on 571-272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for Application/Control Number: 10/758,276

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published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). SHIH-WEN HSIEH
PRIMARY EXAMINER

Shih-wen Hsieh Primary Examiner Art Unit 2861 Page 7

SWH

mm Dec. 21, 2005